ANNUAL REPORT

1988-1989

MANITOBA HEALTH RESEARCH COUNCIL

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CONTENTS

List of Members of the Manitoba Health Research Council . . 1

Council Secretariat 2

Report of the Chairman 3

1988-89 F. l Overview 5

Financial Statement 6

Operating & Equipment Scientific Review Committee 13

Personnel Scientific Review Committee 14

Social & Behavioural Scientific Review Committee 15

List of Operating Grants 16

List of Equipment Grants 18

List of Personnel Awards

- Scholarship Renewals 19
- Scholarship Awards 19
- Establishment Grants 19
- Postdoctoral Fellowship Awards 20
- Graduate Studentship Renewals 21
- Graduate Studentship Awards 22

MEMBERS OF THE MANITOBA HEALTH RESEARCH COUNCIL

Dr. K.R. Hughes*, Chairman (until December 1988)
- Dean of Graduate Studies, University of Manitoba.

Dr. A. Ronald*, Chairman (starting December 1988)
- Head, Department of Medicine, University of Manitoba.

Dr. J. Foerster*, Vice-Chairman (until December 1988)
- Professor and Head, Department of Medicine, St. Boniface General Hospital.

Dr. J. Hamerton*, Vice-Chairman (starting December 1988)
- Head, Department of Human Genetics, University of Manitoba.

Dr. N. Anthonisen** (starting June 1988)
- Dean of Medicine, University of Manitoba.

Dr. H. Friesen* (starting December 1988)
- Head, Department of Physiology, University of Manitoba.

Dr. H. Glass (until December 1988)
- Professor of Nursing, University of Manitoba.

Dr. J. Horne (starting December 1988)
- Professor of Community Health Sciences, University of Manitoba.

Dr. M.I. Hussain (until December 1988)
- General Surgeon, Selkirk, Manitoba.

Dr. J. Jamieson (starting December 1988)
- Professor and Head, Dept. of Chemistry, University of Manitoba.

Dr. A. Kristjanson* (until December 1988)
- Professor of Sociology, University of Manitoba.

Ms. N. McCormick
- President of Corporate Health Works, Winnipeg.

Mr. G. Palmer* (starting December 1988)
- Executive Director of Marketing, Manitoba Theatre Centre.

Ms. K. Scherer
- Assistant Director, Research & Planning Directorate, Manitoba Department of Health.

Dr. G. Sisler
- Professor of Psychiatry, University of Manitoba.

Dr. J. Steele (starting December 1988)
- Dean of Pharmacy, University of Manitoba.

Members of the Manitoba Research Council (Continued)

Prof. M. Vaisey-Genser**
- Associate Vice-President (Research)
University of Manitoba.

Dr. J.G. Wade** (until June 1988)
- Dean of Medicine, University of Manitoba.

* Members of the Executive and Finance Committee
** Appointed by the University of Manitoba

COUNCIL SECRETARIAT

Executive Director	-	Dr. Frits C. Stevens
Administrative Secretary	-	Lorraine Morley

REPORT OF THE CHAIRMAN

Council's programs continue to help build the Province's health research infrastructure and make our researchers more competitive both nationally and internationally. However, we are very concerned with the ongoing decline in revenues from the sale of hotel-based break open tickets; if the current trend continues our programs will have to be severely curtailed and the Province's health research enterprise will be seriously jeopardized.

I would like to thank Dr. K. Hughes, whom I recently replaced as Chairman, for his continued efforts to put Council's funding on a more rational and secure basis. Towards the end of the fiscal year Council received some encouraging signs from the Province and hopefully the period of shrinking resources will soon end and we can look forward to a brighter future.

Approximately half of the membership of Council changed this fiscal year; I would like to express my appreciation to both old and new Council members for their dedicated and conscientious efforts during this difficult period. In addition to the pursuit of increased and stable funding for our basic programs, Council also worked to ensure that funds flowing to the Province from the Federal Government as a result of the Canada Act to amend the Drug Patent Act (Bill C-22), will be used for health research and development. Here again, although no decisions were made during this fiscal year, we are encouraged by the way negotiations are proceeding and view the future with guarded optimism.

For Council to be successful in meeting the expectations of Manitobans in general and the health research constituency in particular it will be necessary to better inform politicians and the public at large about our aims, objectives and achievements. With this in mind Council recently established a public relations committee which in short order produced a number of recommendations on which we have begun to act.

Allocations of Council's scarce resources to researchers and research trainees are based on a rigorous peer review system that has earned the respect of the scientific community. Peer review is a thankless task involving long hours of unremunerated work by more than thirty members of our review panels and hundreds of external reviewers from across the continent and the world. On behalf of Council, I wish to express our gratitude for their efforts.

Council's audited financial statement, the membership of the Scientific Review Committees and list of this year's grants and awards are detailed in the remainder of this report.

Respectfully submitted

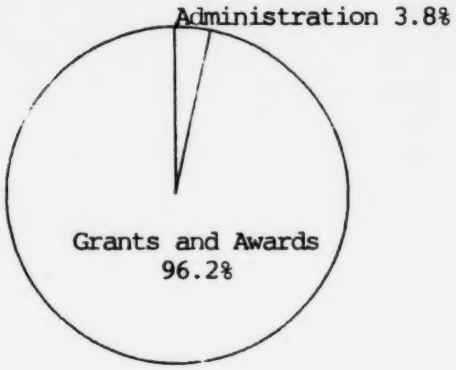
A.R. Ronald, M.D.
Chairman

April 1989

OVERVIEW OF 1988-89 EXPENDITURES

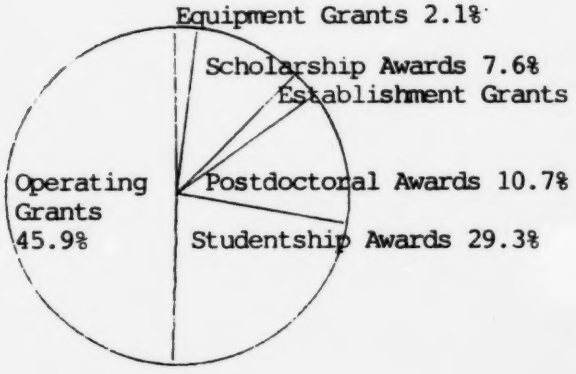
TOTAL EXPENDITURES

$ 1,435,351



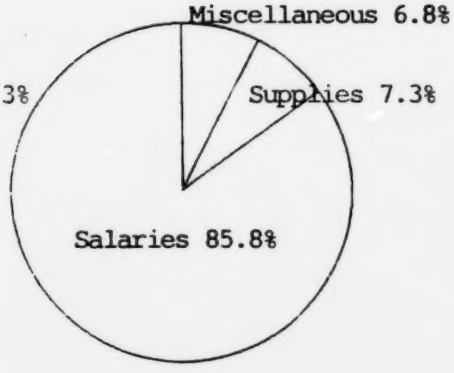
GRANTS AND AWARDS

$ 1,379,748



ADMINISTRATION

$ 55,603



THE MANITOBA HEALTH RESEARCH COUNCIL

REPORT OF THE PROVINCIAL AUDITOR'S OFFICE

We have examined the financial statements, being Exhibits A to C and Schedule 1, of The Manitoba Health Research Council for the fiscal year ended March 31, 1989. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances.

In our opinion, these financial statements present fairly the financial position of the Council as at March 31, 1989 and the results of its operations for the year then ended in accordance with the accounting policies stated in note 3 to the financial statements applied on a basis consistent with that of the preceding year.

J. W. Singleton, CA
Assistant Provincial Auditor.

May 26, 1989
Winnipeg, Manitoba

THE MANITOBA HEALTH RESEARCH COUNCIL

Balance Sheet
as at March 31, 1989

	1989	1988
ASSETS		
Cash	$ 327,186	$ 524,295
Grant receivable from the Manitoba Lotteries Foundation on behalf of the Department of Health	590,250	-
Grant receivable from the Manitoba Lotteries Foundation	41,561	51,103
Grant receivable from the Government of the Province of Manitoba	-	500,000
Accrued interest	1,663	11
	$ 960,660	$ 1,075,409
LIABILITIES AND UNEXPENDED FUNDS		
Accounts payable	$ 3,305	$ 3,270
Research grants payable	317,483	294,835
The Manitoba Health Research Council Fund, Exhibit C:		
Reserve for Future Research Fund Account (Note 4)	250,000	500,000
General Fund Account	389,872	277,304
	639,872	777,304
	$ 960,660	$ 1,075,409

Approved on behalf of the Council:

DIRECTOR

DIRECTOR

THE MANITOBA HEALTH RESEARCH COUNCIL

Statement of Revenues and Expenditures
for the year ended March 31, 1989

	1989	1988
Revenues:		
Grant from the Manitoba Lotteries Foundation on the behalf of the Department of Health	$ 787,000	$ 787,000
Grant from the Manitoba Lotteries Foundation	404,134	509,476
Grant from the Government of the Province of Manitoba	-	500,000
Returned grant funds	44,422	20,325
Bank interest	62,363	34,665
	1,297,919	1,851,466
Expenditures:		
Research grants (Note 3(b)):		
University of Manitoba on behalf of grantees	1,367,483	1,294,835
University of Arizona on behalf of grantee	-	11,795
University of Maryland on behalf of grantee	12,265	-
	1,379,748	1,306,630
Administration expenses, Schedule 1, Note 6	55,603	50,237
	1,435,351	1,356,867
Revenues (under) over expenditures (Exhibit C)	$ (137,432)	$ 494,599

THE MANITOBA HEALTH RESEARCH COUNCIL

Statement of the Manitoba Health Research Council Fund
for the year ended March 31, 1989

	1989	1988
Reserve for Future Research Fund Account:		
Balances, beginning of year	$ 500,000	$ -
Funds transferred from the General Fund Account	-	500,000
Funds transferred to the General Fund Account	250,000	-
Balance, end of year	250,000	500,000
General Fund Account:		
Balance, beginning of year	277,304	282,705
Revenues (under) over expenditures (Exhibit B)	(137,432)	494,599
	139,872	777,304
Funds transferred from Reserve for Future Research Fund Account	250,000	-
Funds transferred to Reserve for Future Research Fund Account	-	(500,000)
Balance, end of year	389,872	277,304
The Manitoba Health Research Council Fund, Exhibit A	$ 639,872	$ 777,304

THE MANITOBA HEALTH RESEARCH COUNCIL

Administration Expenses
for the year ended March 31, 1989

	1989	1988
Accounting and audit	$ 1,625	$ 1,425
Bank charges	125	160
Council and committee expenses	493	574
Insurance	125	125
Office equipment (Note 3(a))	2,132	273
Postage and delivery	995	985
Printing and stationery	1,936	3,893
Salaries and benefits	47,725	42,475
Telephone	447	327
Total administration expenses, Exhibit B Note 6	$ 55,603	$ 50,237

Notes to the Financial Statements
for the year ended March 31, 1989

1. INCORPORATION AND FUNCTION

The Manitoba Health Research Council was established by The Manitoba Health Research Council Act. The Council was established to promote and assist basic, clinical and applied research in the health sciences in Manitoba. The Council relies entirely on grants from the Province of Manitoba and the Manitoba Lotteries Foundation for continued existence.

2. CHARITABLE STATUS

The Manitoba Health Research Council is a registered charity within the meaning of the Income Tax Act.

3. SIGNIFICANT ACCOUNTING POLICIES

(a) An accrual basis of accounting is used except for office equipment purchases, which are charged to expenditures in the year of acquisition.

(b) Research grants are charged to expenditures when funding is approved by the Council.

4. RESERVE FOR FUTURE RESEARCH FUND ACCOUNT

Subsequent to March 31, 1988, the Council received a one-time grant of $500,000 from the Government of the Province of Manitoba. This grant will be used to increase program levels and fund priority research. During the year ended March 31, 1989 the Council authorized the use of $250,000 for grant competitions.

5. FIXED ASSETS

Furniture and equipment has an estimated useful life of 5 years. The Council purchased fixed assets and charged the following costs to operations:

1989	-	$ 1,924
1988	-	-
1987	-	262
1986	-	751
1985	-	785
Previously	-	7,103

THE MANITOBA HEALTH RESEARCH COUNCIL

Notes to the Financial Statements
for the year ended March 31, 1989

6. ADMINISTRATION EXPENSES

Facilities are provided free of charge from the University of Manitoba. Legal services, when required, are provided free of charge from Legislative Council. The value of these services has not been determined.

OPERATING & EQUIPMENT SCIENTIFIC REVIEW COMMITTEE

Dr. K. Wrogemann (Chairman), Department of Biochemistry,
University of Manitoba.

Dr. F.Y. Aoki, Department of Medical Microbiology,
University of Manitoba.

Dr. K. Dakshinamurti, Department of Biochemistry,
University of Manitoba.

Dr. T.A. Dick, Department of Zoology,
University of Manitoba.

Dr. J. Gartner, Department of Pathology,
University of Manitoba.

Dr. J. Geiger, Department of Pharmacology,
University of Manitoba.

Dr. B. Kunz, Department of Microbiology,
University of Manitoba.

Dr. R.Y.K. Man, Department of Pharmacology,
University of Manitoba.

Dr. D. McCrea, Department of Physiology,
University of Manitoba.

Dr. K. Oen, Department of Pediatrics & Child Health,
University of Manitoba.

Dr. R. Reid, Faculty of Pharmacy,
University of Manitoba.

Dr. P. Singal, Department of Physiology,
University of Manitoba.

Dr. G. Sutherland, Department of Surgery,
University of Manitoba.

Dr. J. Wilkins, Department of Internal Medicine,
University of Manitoba.

PERSONNEL SCIENTIFIC REVIEW COMMITTEE

Dr. J. Evans (Chairperson), Department of Human Genetics,
University of Manitoba.

Dr. W.A. Anderson, Department of Anatomy,
University of Manitoba.

Dr. G. Bowden, Department of Oral Biology,
University of Manitoba.

Dr. J.M. Bowness, Department of Biochemistry & Molecular Biology,
University of Manitoba.

Dr. C.J. Briggs, Faculty of Pharmacy,
University of Manitoba.

Dr. H. Dean, Department of Pediatrics & Child Health,
University of Manitoba.

Dr. A. Froese, Department of Immunology,
University of Manitoba.

Dr. F. Jay, Department of Medical Microbiology,
University of Manitoba.

Dr. W. Lautt, Department of Pharmacology,
University of Manitoba.

Dr. R. Shiu, Department of Physiology,
University of Manitoba.

Dr. A. Sima, Department of Pathology,
University of Manitoba.

Dr. M. Younes, Department of Medicine,
Health Sciences Centre.

SOCIAL & BEHAVIOURAL SCIENTIFIC REVIEW COMMITTEE

Dr. J. Horne (Chairman), Department of Community Health Sciences,
University of Manitoba.

Dr. G. Barnes, Department of Family Studies,
University of Manitoba.

Dr. B. Bolster, Department of Psychology,
University of Winnipeg.

Dr. L. Degner, School of Nursing,
University of Manitoba.

Dr. L. Garro, Department of Community Health Sciences,
University of Manitoba.

Dr. B. Trute, Faculty of Social Work,
University of Manitoba.

Dr. A. Segall, Department of Sociology,
University of Manitoba.

Dr. K. Young, Department of Community Health Sciences,
University of Manitoba.

LIST OF OPERATING GRANTS

Investigator(s), Department, Institution. Project Title.	Award Amount
BEATON, J. & GUPTON, A., School of Nursing, U. of Manitoba. Childbirth expectations: the influence of risk status, childbirth preparation and anxiety.	$ 14,500
BOSE, Ratna, Pharmacology, U. of Manitoba. Use of amiloride analoges for studying the mechanism of relaxation in smooth muscle.	29,000
CATTINI, P.A., Physiology, U. of Manitoba. Generation of continuous human cell lines expressing endogenous genes coding for members of the growth hormone family.	30,000
COLE, W.C., Physiology, U. of Manitoba. Role and regulation of gap junctional cell-to-cell communication in small resistance arteries.	34,000
DAVIE, J.R., Biochemistry, U. of Manitoba. Sequence-specific DNA binding proteins.	30,000
FLEMING, N., Oral Biology, U. of Manitoba. Salivary mucin secretion: regulation by prostaglandins.	30,000
GEIGER, J.D., Pharmacology & Therapeutics, U. of Manitoba. Adenosine receptors, transport and metabolism in neuronal and glial cells.	13,000
GERRARD, J.M. & KOBRINSKY, N., Pediatrics, MacDONALD, E. & BRUCE, V., Foods & Nutrition, U. of Manitoba. The influence of diet on bleeding time and bleeding symptoms in individuals with bleeding disorders.	20,000
GOLDSTEIN, J.E., Sociology, U. of Manitoba. Smoking as social deviance: stigmatization and its impact on smoking cessation intentions and behaviour.	21,500
GREENBERG, C.R. & EVANS, J.A., Pediatrics & Child Health, SEARGEANT, L.E., Human Genetics, U. of Manitoba. Genetic analysis of hypophosphatasia.	35,000
MAN, R.Y.K., Pharmacology, U. of Manitoba. Cardiovascular effects of amphiphilic lipids in normal and ischemic hearts.	20,000
MOHAPATRA, S.S., Immunology, U. of Manitoba. Synthesis and modification of pollen allergen(s) by recombinant DNA technology.	30,000

List of Operating Grants (Continued)

MURPHY, L.C., Biochemistry, U. of Manitoba. Characterizaiton of a putative calcium-binding protein which is associated with the prolactin receptor.	$ 34,000
MURPHY, L.J., Internal Medicine, U. of Manitoba. Identification of estrogen responsive elements in the insulin-like growth factor-I/somatomedin C gene.	32,000
NAGY, J.I., Physiology, U. of Manitoba. Anatomical localization of gap junctions and gap junction protein in the vertebrate CNS.	29,000
PARASKEVAS, F., Internal Medicine, U. of Manitoba. The mechanism of suppression in multiple myelona.	33,000
REID, R.E., Pharmacy, U. of Manitoba. Chemical regulation of calmodulin function.	30,000
SCHMIDT, B.J., Medicine, U. of Manitoba. An in vitro study of neurochemical transmission in the normal and lesioned spinal cord.	18,000
SINGAL, P.K., Physiology, U. of Manitoba. Antioxidant protection against adriamycin-induced subcellular changes: studies on lysosomes.	30,000
STAMBROOK, M. & PETERS, L., Psychiatry, CARDOSO, E., Surgery, DUBO, H., Medicine, U. of Manitoba. Neurobehavioural and psychosocial recovery from closed head injury.	20,000
SZTURM, T.J., Medical Rehabilitation, U. of Manitoba. Further examination of otolith mediated modulation of posture-related cutaneomuscular reflex responses in human lower limb muscles.	10,500
WARRINGTON, R.J., Medicine, U. of Manitoba. Characterization of the LMW-B cell growth factor receptor.	30,000
WROGEMANN, K., Biochemistry, U. of Manitoba. Relation of a 56K protein to the human androgen receptor and studies in fibroblasts from patients with androgen resistance syndrome.	30,000
YEE, W-C., Medicine, U. of Manitoba. A study of insulin-like growth factor I as a neurotrophic factor in vivo.	30,000
	$633,500

EQUIPMENT GRANTS

Investigator(s), Department, Institution. Equipment Required.	Award Amount
CATTINI, P.A., Physiology, U. of Manitoba. Coulter counter model Zm.	$ 13,000
COLE, W.C., Physiology, U. of Manitoba. Olympus stereomicroscope and equipment.	10,000
WILKINS, J.A., Internal Medicine, U. of Manitoba. Tissue culture incubator.	6,378
	$ 29,378

LIST OF PERSONNEL AWARDS

SCHOLARSHIP AWARD RENEWALS

PASTERKAMP, H., Pediatrics, U. of Manitoba. Studies on respiration acoustics in the developing lung.	$ 35,000
	$ 35,000

SCHOLARSHIP AWARDS

KARDAMI, E., Physiology, U. of Manitoba. Studies on the control of cardiac myocyte proliferation.	$ 35,000
MOHAPATRA, S.S., Immunology, U. of Manitoba. Synthesis and modification of pollen allergen(s) by recombinant DNA technology.	35,000
	$ 70,000

ESTABLISHMENT GRANTS

ARTHUR, G., Biochemistry, U. of Manitoba. Arachidone metabolism in the heart.	$ 10,000
KARDAMI, E., Physiology, U. of Manitoba. Studies on the control of cardiac myocyte proliferation.	25,000
MOHAPATRA, S.S., Immunology, U. of Manitoba. Synthesis and modification of pollen allergen(s) by recombinant DNA technology.	25,000
	$ 60,000

POSTDOCTORAL FELLOWSHIP AWARDS

Fellow (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
BRIL, A. (Man, R.Y.K.), Pharmacology & Therapeutics, U. of Manitoba. Cardiovascular pharmacology and electrophysiology.	$ 23,405
GOMEZ, A. (Mink, S.N.), Internal Medicine, U. of Manitoba. Ventricular mechanics in experimental pulmonary emphysema.	32,850
KRUEGER, D.S. (Shiu, R.P.C.), Physiology, U. of Manitoba. Hormonal control of the proliferation of human breast cancer cells.	20,655
McCLARTY, G. (Wright, J.A.), Cell Biology Inst., Manitoba Cancer Treatment & Research Foundation. Cancer research.	23,405
McNICOL, A. (Gerrard, J.M.), Cell Biology Inst., Manitoba Cancer Treatment & Research Foundation. Platelet biochemistry.	23,405
YAMAMOTO, T. (Nagy, J.I.), Physiology, U. of Manitoba. Neuroanatomy.	23,405
	$147,125

GRADUATE STUDENTSHIP AWARD RENEWALS

Student (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
BLANDFORD, D.E. (Smyth, D.D.), Pharmacology & Therapeutics, U. of Manitoba. Renal and cardiovascular pharmacology.	$ 12,265
BUCKLEY, N.D. (Hamilton, I.), Oral Biology, U. of Manitoba. Oral microbiology.	12,265
GIESBRECHT, G.G. (Younes, M.), Physiology, Health Sciences Ctr. Physiology and control of respiration.	12,265
HU, W. (Froese, A.), Immunology, U. of Manitoba. Allergy in immunology.	12,265
LECO, K.J. (Matusik, R.J.), Physiology, U. of Manitoba. Molecular biology.	12,265
O, K. (Choy, P.C.), Biochemistry, U. of Manitoba. Biochemistry - lipid metabolism in mammalian organs.	12,265
SAUDINO, K.J. (Eaton, W.O.), Psychology, U. of Manitoba. Developmental psychology.	12,265
TSUYUKI, D.K. (Shiu, R.P.C.), Physiology, U. of Manitoba. Physiology (endocrinology).	12,265
	$ 98,120

GRADUATE STUDENTSHIP AWARDS

Student (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
BELSHAM, D.D. (Wrogemann, K.), Biochemistry, U. of Manitoba. Biochemical genetics.	$ 12,265
CHERNOMAS, W.M. (Lenz, E.), School of Nursing, U. of Maryland. Nursing - Ph.D.	12,265
CHOY, B.B.K. (Wright, J.A.), Cell Biology Inst., Manitoba Cancer Treatment & Research Foundation. Cancer research.	12,265
COPELAND, K.R. (Yatscoff, R.W.), Biochemistry, U. of Manitoba. Ph.D. in biochemistry.	12,265
CURRIE, P.J. (Wilson, L.), Psychology, U. of Manitoba. Physiological psychology: feeding behaviour, regulation of food intake.	12,265
DIMATTIA, G. (Friesen, H.G.), Physiology, U. of Manitoba. Molecular biology of endocrine systems.	12,265
FEDIRCHUK, B.A. (Shefchuk, S.), Physiology, U. of Manitoba. Neurophysiology.	12,265
GILMAN, D.A. (Tefft, B.), Psychology, U. of Manitoba. Clinical psychology, Ph.D.	12,265
HOCHMAN, S. (McCrea, D.A.), Physiology, U. of Manitoba. Neurophysiology (spinal cord electrohysiology).	12,265
JIANG, H. (Stephens, N.L.), Physiology, U. of Manitoba. Respiratory physiology.	12,265
KIRK, J-A.M. (Grant, K.), Sociology, U. of Manitoba. Sociology.	12,265
LA CROIX, E.L. (Froese, A.), Immunology, U. of Manitoba. Allergy research.	12,265
LESZCZYNSKI, K.W. (Shalev, S.), Medical Physics, Manitoba Cancer Treatment & Research Foundation. Medical physics.	12,265
MacDONALD, G.C. (Gartner, J.), Pathology, U. of Manitoba. Immunology.	12,265
MARKESTEYN, T.J. (Marcuse, F.L.), Psychology, U. of Manitoba. Victimization.	12,265

Graduate Studentship Awards (Continued)

NESS, D.V. (Lebow, M.D.), Psychology, U. of Manitoba. Ph.D. in clinical psychology.	$ 12,265
NICKEL, J.C. (McLachlin, K.R.), Preventive Dental Science, U. of Manitoba. Craniofacial biology.	12,265
RIDSDALE, J.A. (Davie, J.R.), Biochemistry, U. of Biochemistry: molecular biology.	12,265
ROBINSON, D.B. (Shiu, R.), Physiology, U. of Manitoba. Molecular endocrinology.	12,265
SALADIN, L.K. (Bruni, J.), Anatomy, U. of Manitoba. Neuroanatomy.	12,265
SCHONWETTER, D.J. (Janisse, M.P.), Psychology, U. of Manitoba. Field of experimental and personality psychology.	12,265
SIOW, Y.L. (Dakshinamurti, K.), Biochemistry, U. of Manitoba. Biochemistry (neurochemistry).	12,265
THOMLINSON, E.H. (Schilder, E.), Nursing, U. of Manitoba. Pediatric nursing.	12,265
UNIYAL, S. (Paraskevas, F.), Immunology, U. of Manitoba. Immunology.	12,265
YANG, C. (Jay, F.T.), Medical Microbiology, U. of Manitoba. Molecular biology, biochemistry, microbiology.	12,265
	$306,625